

**Version Marked to Show Changes**

- 1 1. (Amended) A method for locating and classifying information sources in response  
2 to a query, the method comprising:
- 3 (a) providing a knowledge representation graph structure of the query to a  
4 retrieval engine that locates a collection of information sources and  
5 generates an information source knowledge representation graph  
6 structure of each located information source in the collection; and
- 7 (b) matching the query knowledge representation graph structure to the  
8 information source knowledge representation graph structures obtained in  
9 step (a) to generate a graph containment hierarchy of supergraph  
10 structures and subgraph structures in which each of the supergraph  
11 structures and subgraph structures corresponds to at least one  
12 information source.
- 1 5. (Amended) The method according to claim 1 wherein step (b) comprises  
2 displaying the supergraph structures and subgraph structures in the graph  
3 containment hierarchy.
- 1 7. (Amended) The method according to claim 1 wherein step (b) comprises  
2 displaying the graph containment hierarchy and identifying information for each  
3 information source.
- 1 17. (Amended) Apparatus for locating and classifying information sources in  
2 response to a query, the apparatus comprising:  
3 a retrieval engine that receives a knowledge representation graph  
4 structure of the query and, in response thereto, locates a collection of information  
5 sources and generates an information source knowledge representation graph  
6 structure of each located information source in the collection; and

7 a graph matching processor that matches the query knowledge  
8 representation graph structure to the information source knowledge  
9 representation graph structures obtained by the retrieval engine to generate a  
10 graph containment hierarchy of supergraph structures and subgraph structures in  
11 which each of the supergraph structures and subgraph structures corresponds to  
12 at least one information source.

1 21. (Amended) The apparatus according to claim 17 further comprising a graphical  
2 user interface that displays the supergraph structures and subgraph structures in  
3 the graph containment hierarchy.

1 23. (Amended) The apparatus according to claim 17 further comprising a graphical  
2 user interface that displays the graph containment hierarchy and identifying  
3 information for each information source.

1 33. (Amended) A computer program product for locating and classifying information  
2 sources in response to a query, the computer program product comprising a  
3 computer usable medium having computer readable program code thereon,  
4 including:

5 program code for providing a knowledge representation graph structure of  
6 the query to a retrieval engine that locates a collection of information sources and  
7 generates an information source knowledge representation graph structure of  
8 each located information source in the collection; and

9 program code for matching the query knowledge representation graph  
10 structure to the information source knowledge representation graph structures  
11 obtained in step (a) to generate a graph containment hierarchy of supergraph  
12 structures and subgraph structures in which each of the supergraph structures  
13 and subgraph structures corresponds to at least one information source.

1 35. (Amended) A computer data signal embodied in a carrier wave for locating and  
2 classifying information sources in response to a query, the computer data signal  
3 comprising:  
4       program code for providing a knowledge representation graph structure of  
5 the query to a retrieval engine that locates a collection of information sources and  
6 generates an information source knowledge representation graph structure of  
7 each located information source in the collection; and  
8       program code for matching the query knowledge representation graph  
9 structure to the information source knowledge representation graph structures  
10 obtained in step (a) to generate a graph containment hierarchy of supergraph  
11 structures and subgraph structures in which each of the supergraph structures  
12 and subgraph structures corresponds to at least one information source.